Work Order ID 71461

Monday, July 04, 2011 1:31:00 PM

D3391-023

Revision ID:

Mid Tube Assembly Item Name:

Required Date: 7/19/2011

Start Date:

7/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



Accept



Setup Start



Page 1

Stop

Reference:

Item ID:

Approvals:

Process Plan: _______

Date: //-07-04 Tooling:

Date: _____

SPC (Y/N):

Date:

Date:

Cust Item ID:

Customer:

Run

Start

Stop

Sequence ID/ Work Center ID Operation **Description**

Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Qty

Reject **Qty**

Reject Number

Insp. Stamp

Draw Nbr **Revision Nbr** D3391 Rev H

QC:

100

Skidtubes

Skidtubes

0.00

0.00

Skidtubes

Memo

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

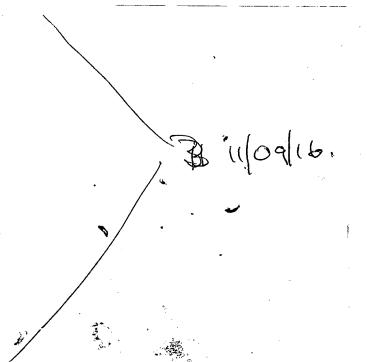
6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391



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Page 2

Item ID:

D3391-023

Accept



Setup Start



Revision ID:

Start Date:

Item Name: Mid Tube Assembly

Required Date: 7/19/2011

7/5/2011

Start Oty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

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Process Plan:

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Tooling:

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QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID

Operation Description

Set Up/ **Run Hours** Tool ID

Tool # Plan

Code Qty

Accept

Reject **Qty**

Reject Insp. Number Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fivd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect all ingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd warplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

Open hales section I page 206 aspending D3391

11/09/16

W/O:			WORK ORDER CHANGES										
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Work'Order ID 71461

Monday, July 04, 2011 1:31:00 PM



Page 3

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name: Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Required Date: 7/19/2011 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: _____

Date:

Tooling:

Date:

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Run

Qty

Start

Stop



QC:

Date:

SPC (Y/N):

Set Up/

Tool ID

Tool # Plan

Code

Accept Qty

Reject Reject-Number

Insp. Stamp

Sequence ID/ Work Center ID

110

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Run Hours 0.00

120

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

Memo

QC3- Inspect Part Finish

Quality Control

130

Memo

0.00

0.00

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Page 4

Item ID:

D3391-023

Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Operation

Skidtubes

Description

Required Date: 7/19/2011

Req'd Qty: 1.00

Reference:

Approvals:



QC:

Process Plan:

Date:

Date:

SPC (Y/N):

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0.00

Tooling:

Accept

Set Up/

Run Hours

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Tool ID

Date:

Date:

Tool # Plan Code

Accept Qty

Reject Qty

Run

Setup Start

Stop

Start

Stop

Reject Number

Insp. Stamp

140



Sequence ID/

Work Center ID

Skidtubes

Skidtubes

Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours)

A/R Sikaflex exp: 12-8-13

batch#: 1119399

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

160

150

Quality Control

Skidtubes

Skidtubes

Skidtubes

Memo

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

0.00

0.00

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W/O:			W	ORK ORDER CHANGI	ES				1 ,			
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Work Order ID 71461

Monday, July 04, 2011 1:31:00 PM



Page 5

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Required Date: 7/19/2011

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00 Req'd Qty: 1.00



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Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Start Stop



QC:

Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Tool ID

Tool # Plan

Code

Reject Accept **Qty**

Qty

Run

Reject

Number

Insp. Stamp

Sequence ID/ Work Center ID

170

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

0.00

Memo

180

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

185

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

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W/O:			W	ORK ORDER CHANGE	ES				Υ .
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Work Order ID 71461

Monday, July 04, 2011 1:31:00 PM



Page 6

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Required Date: 7/19/2011

Req'd Qty: 1.00



Cust Item ID: Customer:

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Process Plan:

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QC:

Operation

Description

Date:

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Set Up/

Run Hours

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

Sequence ID/

Work Center ID

190



Powdercoat

Powder Coating

Memo

White Gloss(Ref:4.3.5.1) per OSI005 4.3-Alum

OVEN TEMPERATURE:

FINISH TIME:

200

QC3- Inspect Part Finish

0.00



Quality Control

Memo

0.00

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W/O:			WO	RK ORDER CHANGE	S				٠,			
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Work Order ID 71461

Monday, July 04, 2011 1:31:00 PM



Page 7

Item ID:

D3391-023

Accept



Run

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Required Date: 7/19/2011

Req'd Qty: 1.00



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Reference:

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Process Plan:

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0.00

Code

Stop



Reject

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Date:

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Set Up/

Run Hours

Tool ID

Date:

Date:

Tool # Plan

Accept Qty

Reject Qty

Insp. Number Stamp

210



Sequence ID/

Work Center ID

Skidtubes

Skidtubes

Skidtubes

Memo

Operation

Description

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

4- remove T-pins and locate DT9415 from first and third cross olt hole using T-

5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting/from 0.500" side

220



QC5- Inspect part completeness to step on W/O

Memo

Ø.00

Quality Control

W/O:		WORK ORDER CHANGES									
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Work Order ID 71461

Monday, July 04, 2011 1:31:00 PM



Page 8

Item ID:

D3391-023

Accept

Plan

Code

Accept

Qty

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Required Date: 7/19/2011

Req'd Oty: 1.00

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Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Tooling:

SPC (Y/N):

Tool ID

Date: ____

Tool #

Date:

Run

Start

Stop

Reject



Number Stamp

Insp.

Sequence ID/ Work Center ID

230

Hand Finishing

Operation

Description

QC:

HandFinishing

HandFinish

Memo

Memo

Set Up/ **Run Hours**

0.00

Install Inserts as per Dwg -

Date: _____

1,

0.00

BR 11-11-14.

Reject

Qty

240

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Sululy

250

Packaging

Packaging

Identify as per dwg & Stock Location:

0.00

Memo

0.00

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W/O:			W	ORK ORDER CHANC	GES					1 .
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Work Order ID 71461

Monday, July 04, 2011 1:31:00 PM



Page 9

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

7/5/2011

Start Qty: 1.00

Required Date: 7/19/2011 Req'd Qty: 1.00

Cust Item ID: Customer:

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Operation

Description

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Tooling: Date:

SPC (Y/N):

Date:

Tool ID

Date:

Tool # Plan

Code

Accept

Qty

Stop



Sequence ID/

Work Center ID

260

Quality Control

Memo

QC21- Final Inspection - Work Order Release

Set Up/ **Run Hours**

0.00

0.00

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Start

Stop

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Reject

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Picklist Print

Monday, July 04, 2011 1:30:57 PM

Work Order ID: 71461

Parent Item: D3391-023

Parent Item Name:

Mid Tube Assembly



Start Date: 7/5/2011

Start Qty: 1.00

Required Date: 7/19/2011

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

07.03.20 rev F dwg

IPP C

IPP D 07.03.28

re-format

IPP E 07.10.31 ecn 1053P

IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

KJ/EC□

EC

EC

EC

 $EC\square$

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route . Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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3391-021		Manufactured	No		NA	100	Each	0.0000	1	1	2		<u> </u>
3389-1		Manufactured	No		10/15	140	Each	1.0000	1 	1/	D	10	
Veb				<u>Location</u> LG	734	33 Local	Qty	<u>Loc Code</u>		C	$\overline{\mathcal{D}}$	D	P11-

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Monday, July 04, 2011 1:30:57 PM

Work Order ID: 71461

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



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Start Date: 7/5/2011

Required Date: 7/19/2011

Start Qty: 1.00

Required Qty: 1.00



D3591-1

Manufactured

Manufactured

No

Location Loc Qty Loc Code LG 68958 2 69893 210

160

Each

Each

27.0000

5

Bushing

ALS4-1032-130

Insert

Purchased

No

ST068

Location

Location

57350 2 25 66147

230 Each

Loc Qty

27

Loc Qty

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1,002.000

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20

20

ALS-7-1030-130 D. 4095-045.

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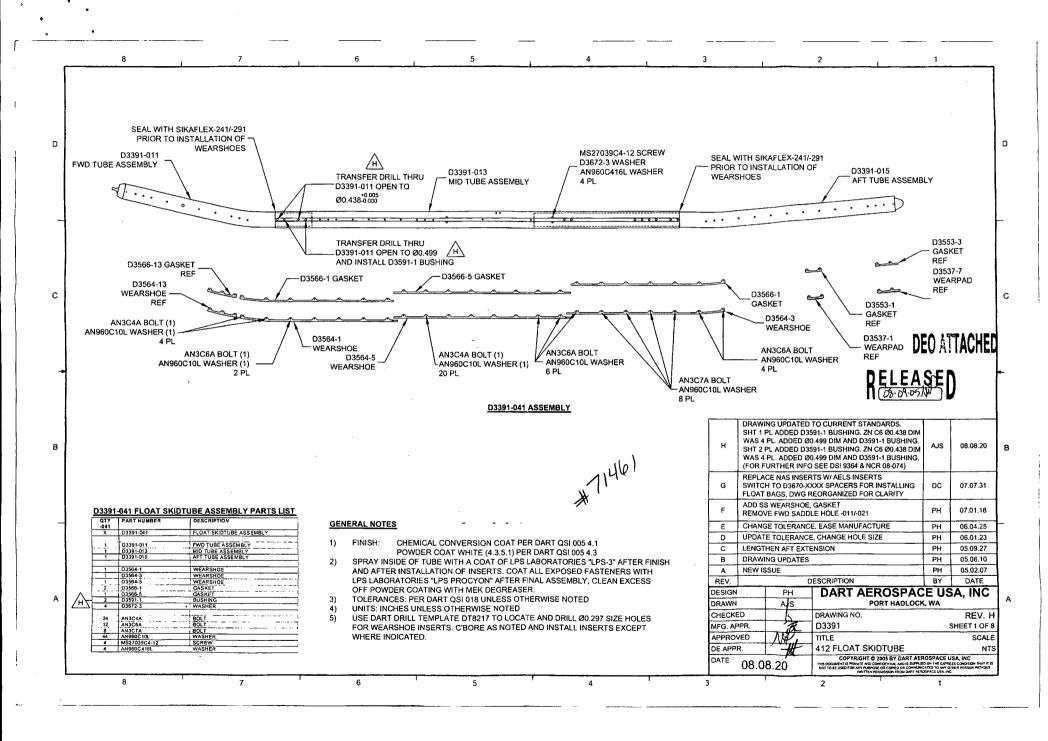
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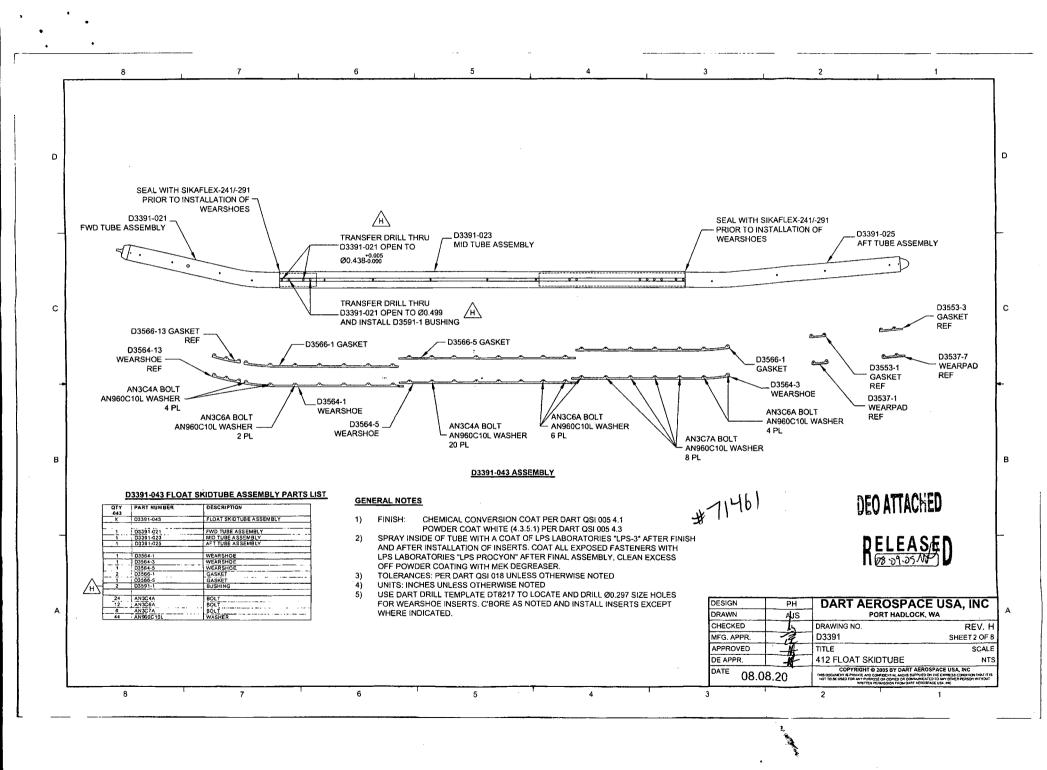
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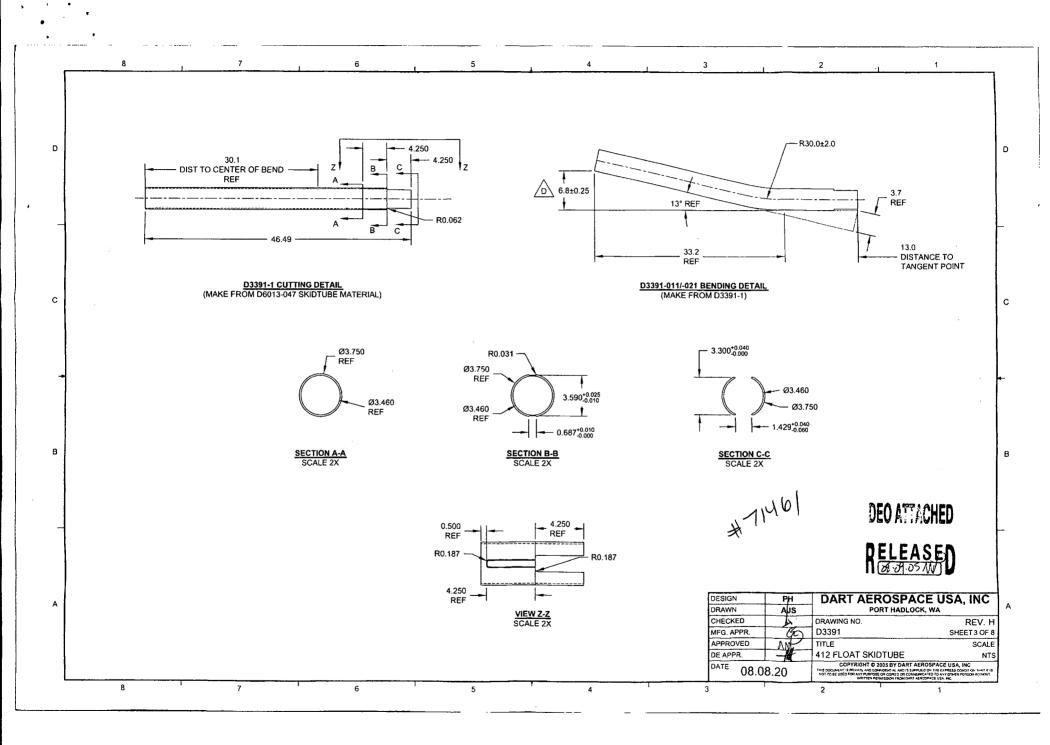
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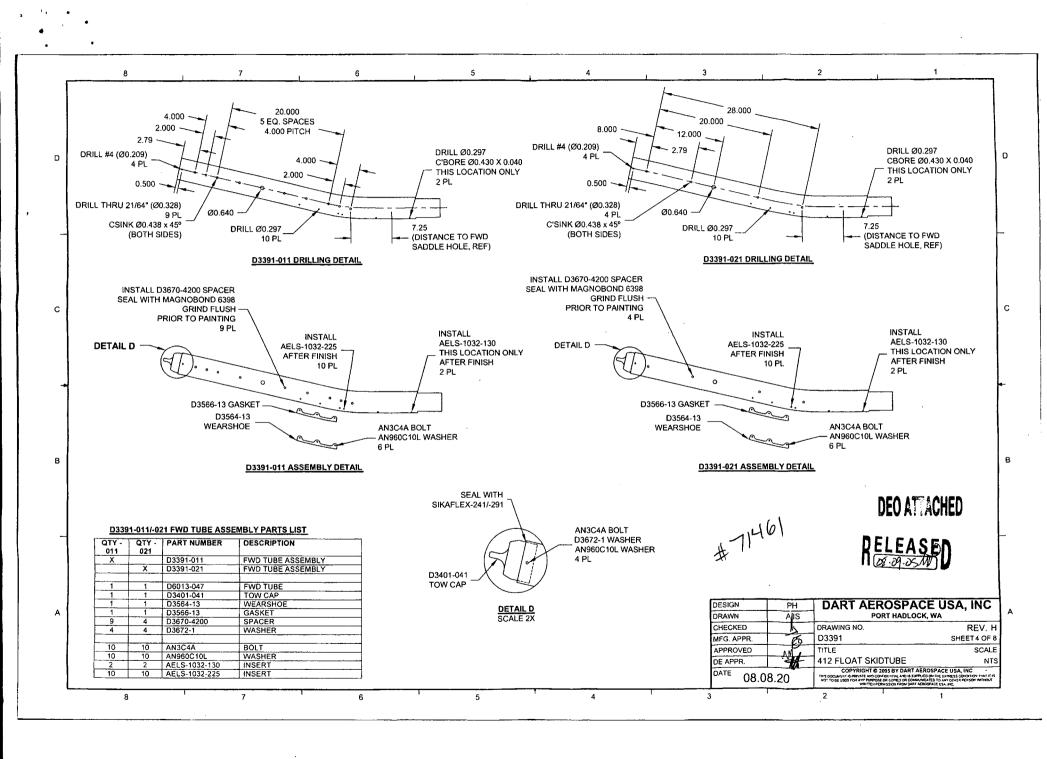
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DATE	STEP	Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
	3.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign of Date		ion C	Chief Eng	QC Inspector
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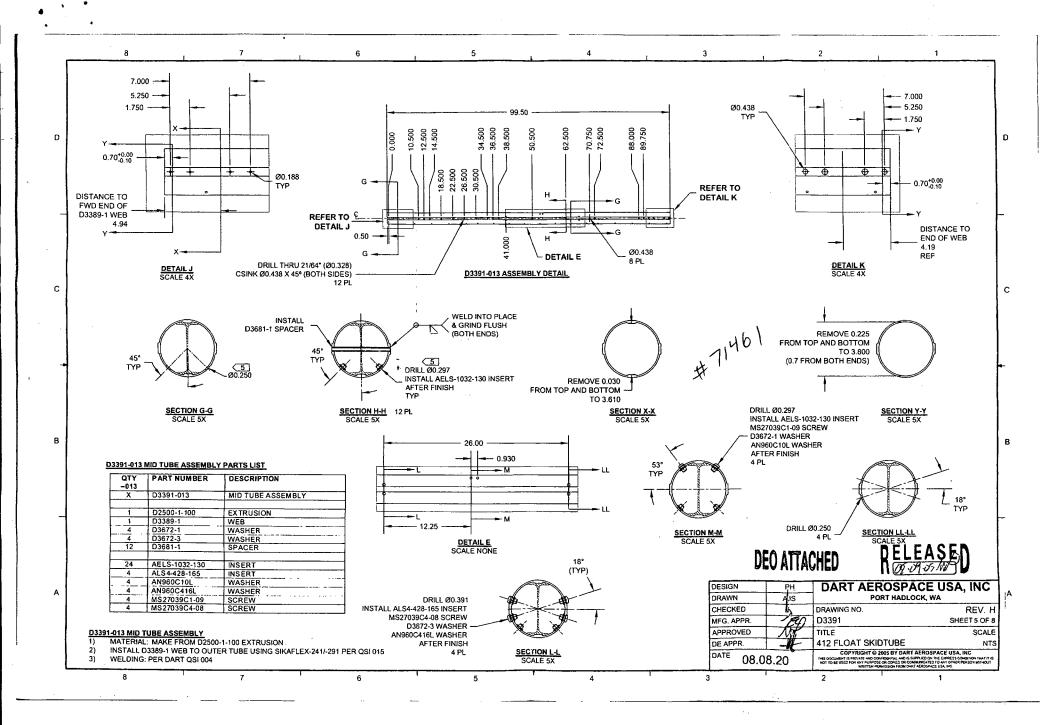
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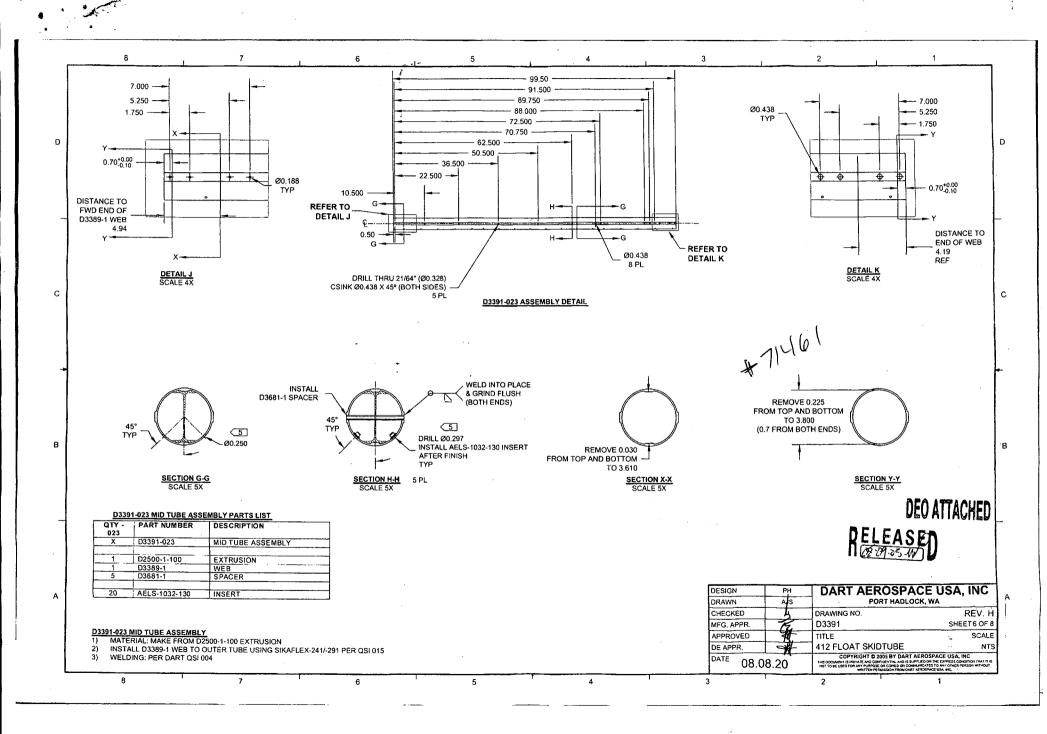
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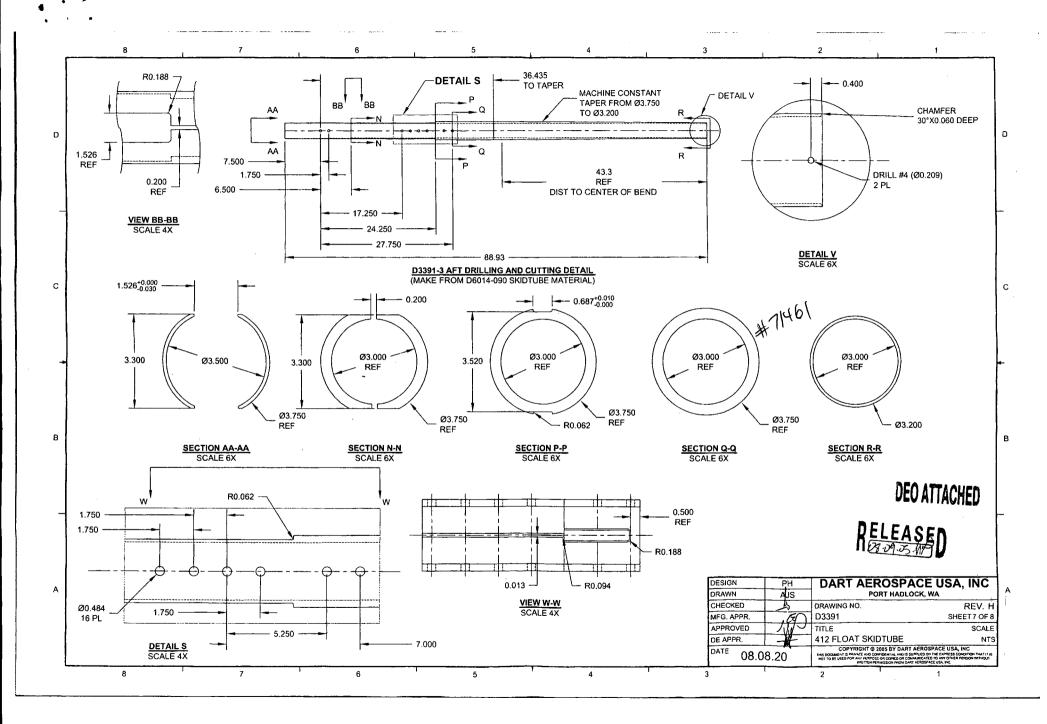
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		Description of NC	Corrective Action Section B			Verification	Approval Chief Eng	Approval
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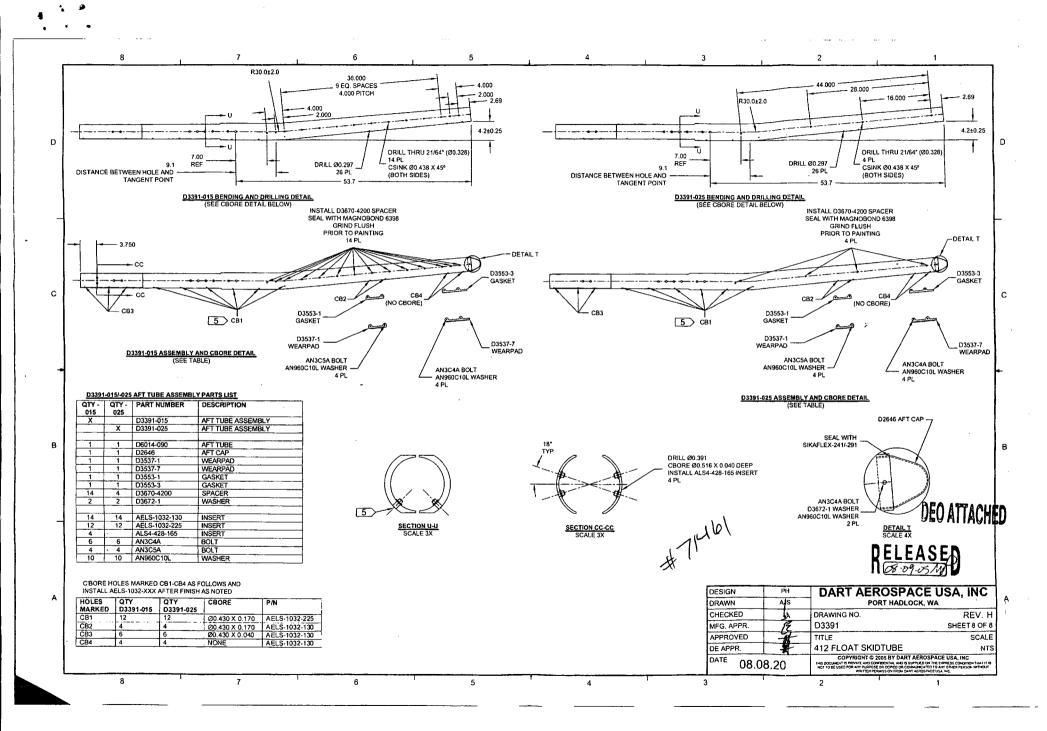


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DRAWING I	NO. TITLE		REV. H D	ART AEROSPACE US	SA, INC	D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLC	AT SKIDTUBE		ENGINEERING ORD	DER	D3391-H-1	SHEET 1 OF,1	NTS
DRAWN	GP	CHECKED	Į.	MFG. APPR.	API	PROVED MA	DE APPR.	
DATE	09.09.23	DATE 04	.09.24	DATE 09/09/25	DA ⁻	TE 09/09/30	DATE 09/09/3	>

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

PELEASED 2010 -02- 0 2

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W/O:		WORK ORDER CHANGES								
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		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC inspector
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NO. 264

AWS D17.1.2001 QUALIFICATION TEST RECORD

2 1 (11)
Name: Darclay 2110tt
Job number: 73035
Part number: 3391-023
Description: MIX Tuke
Welding Process: Tig[Mig[]
Base materiel: Cleminiem
Current: AC[X] DC[]

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[V]	fail[]
renetration:	pass[4	fail[]
<u>UNACCEPTABLE</u>		
Cracks:	pass[v]	fail[]
Undercut:	,	fail
Pin holes:	pass[v]	fail
Overlap (cold lap)	pass[V	fail]
Porosity (surface):	pass[V]	fail
Coloration:	pass	fail
Po 1		
Qualifier fot leeus	_Date of Te	est Coupon
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Welder Franklich	_ Date of Te	est Coupon <u>//-08:3/</u>

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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